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Published weekly

Printed in The Netherlands

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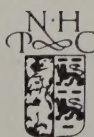
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# ENRICO FERMI INTERNATIONAL SUMMER SCHOOL OF PHYSICS, Volume 79

## From Nuclei to Particles

Proceedings of the International School of Physics, "Enrico Fermi",  
Course LXXIX, Varenna, Italy, 23 June - 5 July, 1980

edited by A. MOLINARI, *Institute of Physics, University of Turin, Italy*

1982 xii + 536 pages Price: US \$106.50/Dfl. 250.00 ISBN 0-444-86158-0  
Subscription price: US \$90.50/Dfl. 212.50

This work focusses on the role played by "elementary particles" inside nuclear structure, a subject both important and fruitful in its own right, but concentrates more on ideas of learning, comparing, and, whenever possible, deepening the concepts and the methods of both fields on themes obviously selected, but commonly recognized as being of central interest and great actuality.

It was felt that this rather unorthodox procedure was worthy of pursuit on three accounts: a) for the student, by providing for their cultural background a broader foundation, more easily achieved by beginners; b) for lecturers, to whom it has offered an opportunity to confront ideas, extend their knowledge and perhaps to recognise that the problems confronting them in their own fields share a spectrum of themes wider than expected with the neighbouring ones; and c) for physics, since it offers an occasion for scientists of different areas to meet each other thus promoting the conditions for a renewal of approaches and ideas. Throughout this book, the Nature in the domain of dimensions as small as  $10^{-13}$  is explored.

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# 25 Years of Physics

*edited by M. JACOB, CERN, Geneva, Switzerland*

1981 viii + 560 pages Price: US \$63.75/Dfl. 150.00 ISBN 0-444-86146-7

The purpose of this book is to provide a detailed yet convenient review of the important physics results obtained at CERN (Conseil Européen pour la Recherche Nucléaire) since its inception in 1954, and also to provide a thorough and up to date review of several fields of research in which CERN has played the leading role.

In 1979 CERN celebrated its 25th Anniversary. It has now become the large host laboratory where over 1500 European physicists can pursue their research in particle physics. The scale and complexity of the research instruments which CERN is operating have greatly developed over a quarter century, while important physics results have contributed to the renown of Europe as a whole.

This work consists of a general introduction which reviews highlights. It also includes five specialized articles covering in detail the following: stochastic cooling, on-line analysis of radioactive ions, very high energy hadron interactions as studied with the CERN intersecting storage rings, the g-2 experiments and neutrino physics as studied with the Gargamelle Bubble Chamber.

Physicists working with high energy physics should insist on its inclusion in their libraries, and people with the responsibilities concerning the funding of science within government agencies will agree on the usefulness of this volume.

**CONTENTS:** Foreword. Introduction. Highlights of 25 Years of Physics (*L. van Hove and M. Jacob*). Physics and Technique of Stochastic Cooling (*D. Möhl, G. Petrucci, L. Thorndahl and S. van der Meer*). Experiments with Intense Secondary Beams of Radioactive Ions (*H. L. Ravn*). Recent ISOLDE Research (a supplement to the preceding chapter) (*H. L. Ravn*). Physics at the CERN-ISR (*G. Giacomelli and M. Jacob*). Physics at the CERN-ISR (1980 Updating) (a supplement to the preceding chapter) (*G. Giacomelli and M. Jacob*). The CERN Muon (g-2) Experiments (*F. Combley, F. J. M. Farley and E. Picasso*). Neutrino Physics with Gargamelle (*P. Musset and J.-P. Vialle*). An Update of the Neutrino Physics with Gargamelle (a supplement to the preceding chapter) (*P. Musset and J.-P. Vialle*). Author Index. Subject Index.

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PUBLISHING Co., Inc.  
1000 AE AMSTERDAM  
THE NETHERLANDS  
52 VANDERBILT AVENUE  
NEW YORK, N.Y. 10017







